

Title (en)  
Bending LED bulb

Title (de)  
Biegbare LED-Lampe

Title (fr)  
Ampoule à diode ployable

Publication  
**EP 2292970 A2 20110309 (EN)**

Application  
**EP 10172735 A 20100813**

Priority  
TW 98216183 U 20090902

Abstract (en)  
A bending LED bulb has a transparent bending tube (10) and a flexible LED strip (20). The flexible LED strip (20) has a flexible printed circuit board (PCB) and a plurality of LEDs (22) mounted on the flexible PCB (21) and is inserted and fixed in the transparent bending tube (10). As the LEDs (22) are sequentially mounted on the flexible PCB (21), the LEDs (22) are adjacent to a wall of the transparent bending tube (10), and are equally spaced. Accordingly, a lumen value of the bending LED bulb can be raised, and heat generated by the LEDs (22) can be dissipated out through the wall of the transparent bending tube (10) to avoid high temperature arising from accumulation of the heat.

IPC 8 full level  
**F21K 9/27** (2016.01); **F21S 4/22** (2016.01); **F21V 29/50** (2015.01); **F21Y 107/00** (2016.01); **F21Y 111/00** (2016.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)  
**F21K 9/00** (2013.01 - EP US); **F21S 4/26** (2016.01 - EP US); **F21V 29/70** (2015.01 - EP US); **F21Y 2103/33** (2016.07 - EP US); **F21Y 2107/00** (2016.07 - EP US); **F21Y 2107/90** (2016.07 - EP US); **F21Y 2115/10** (2016.07 - EP US); **Y10S 362/80** (2013.01 - EP US)

Citation (examination)  
• DE 825725 C 19511220 - LEUTA LEUCHTROEHRENWERK G M B  
• US 2885538 A 19590505 - MAHON JOSEPH E, et al

Cited by  
CN103604060A; EP3842685A1; RU183304U1; CN109983843A; EP3208523A4; EP3188264A1; EP3413361A1; EP3493259A1; US11047532B1; US9386606B2; US10883694B2; WO2013135153A1; WO2022144252A1; WO2018087072A1; WO2020069723A1; TWI778860B; CN105864664A; EP3653924A1; CN112867893A; EP4296565A3; WO2020069722A1; US9331881B2; US10330297B2; US11262058B2; US11592169B2; EP2535640B2

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2292970 A2 20110309**; **EP 2292970 A3 20121121**; TW M376709 U 20100321; US 2011050073 A1 20110303; US 8115370 B2 20120214

DOCDB simple family (application)  
**EP 10172735 A 20100813**; TW 98216183 U 20090902; US 85427710 A 20100811